

What is Claimed is:

1. An E1-deficient adenovirus comprising a YB-1 encoding DNA sequence.
2. An E1-deficient adenovirus as in claim 1, wherein said adenovirus is an E1A-deficient adenovirus.
3. A nucleic acid encoding an E1-deficient adenovirus comprising a YB-1 encoding DNA sequence.
4. A nucleic acid as in claim 3, wherein said adenovirus is an E1A-deficient adenovirus.
5. A pharmaceutical composition comprising an E1-deficient adenovirus comprising a YB-1 encoding DNA sequence and at least one pharmaceutically acceptable carrier.
6. A pharmaceutical composition as in claim 5, wherein said adenovirus is an E1A-deficient adenovirus.
7. A method for treatment of tumors, comprising administering to a patient in need thereof an anti-tumor effective amount of a medicament comprising an E1-deficient adenovirus comprising a YB-1 encoding DNA sequence.
8. A method as in claim 7, wherein said adenovirus is an E1A-deficient adenovirus.
9. A method as in claim 7, wherein said medicament is carried on at least one pharmaceutically acceptable carrier.

10. A method as in claim 7, wherein said method includes at least one of:
administration of substances which damage tumor cells;
surgical tumor excision;
radiation therapy;
chemotherapy;
hyperthermia; and
gene therapy.
11. A method as in claim 10, wherein said substances which damage tumor cells are selected from the group consisting of cytostatic agents and ribozymes.
12. A method according to claim 7, wherein said tumor cells are tumor cells which exhibit YB-1 in the nucleus.
13. A method for E1-independent replication of a replication-defective adenovirus comprising
administering to a cell a recombinant adenovirus carrying a YB-1 encoding DNA sequence,
inducing expression of YB-1 in said cell,
causing said adenovirus to replicate in said cell in the presence of YB-1.
14. A method as in claim 13, wherein the adenovirus is a E1-deficient adenovirus.
15. A method as in claim 13, wherein the adenovirus is a E1A-deficient adenovirus.
16. A method as in claim 13, wherein YB-1 is expressed in the nucleus of said cell.
17. A method for E1-independent replication of a replication-defective adenovirus comprising
administering to a cell a replication-defective adenovirus, whereby YB-1 is present in the nucleus of the cell,

causing said adenovirus to replicate in said cell in the presence of YB-1.

18. A method as in claim 17, wherein the presence of YB-1 in the nucleus of the cell is induced preferably by applying heat or by administering cytotoxic substances to the cell.

19. A method as in claim 17, wherein the adenovirus is a E1-deficient adenovirus.

20. A method as in claim 19, wherein the adenovirus is a E1A-deficient adenovirus.